

## Compound Search

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 14:05:19 ON 19 OCT 2007

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FILE COVERS 1907 - 19 Oct 2007 VOL 147 ISS 18

FILE LAST UPDATED: 18 Oct 2007 (20071018/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D QUE L9

L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON "1,2-BENZENEDIOL, 3-METHOXY-6  
-((1Z)-2-(3,4,5-TRIFLUOROPHENYL)ETHENYL)-"/CN  
L9 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8

=> FILE TOXCENTER USPATFULL

FILE 'TOXCENTER' ENTERED AT 14:05:30 ON 19 OCT 2007

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FILE 'USPATFULL' ENTERED AT 14:05:30 ON 19 OCT 2007

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=> D QUE L10

L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON "1,2-BENZENEDIOL, 3-METHOXY-6  
-((1Z)-2-(3,4,5-TRIFLUOROPHENYL)ETHENYL)-"/CN  
L10 2 SEA L8

=> DUP REM L10 L9

FILE 'TOXCENTER' ENTERED AT 14:05:43 ON 19 OCT 2007

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PROCESSING COMPLETED FOR L10

PROCESSING COMPLETED FOR L9

Serial No.10/790,662

L11 2 DUP REM L10 L9 (1 DUPLICATE REMOVED)  
ANSWER '1' FROM FILE TOXCENTER  
ANSWER '2' FROM FILE USPATFULL

=> DUP REM L9 L10

PROCESSING COMPLETED FOR L9

PROCESSING COMPLETED FOR L10

L12 2 DUP REM L9 L10 (1 DUPLICATE REMOVED)  
ANSWER '1' FROM FILE HCAPLUS  
ANSWER '2' FROM FILE USPATFULL

=> D IBIB ED ABS HITSTR 1; D IBIB ED AB HITSTR 2

L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2004:754412 HCAPLUS Full-text

DOCUMENT NUMBER: 141:277352

TITLE: Preparation of quinone and catechol derivatives for  
the treatment of cancers and other vascular  
proliferative disorders

INVENTOR(S): Chaplin, David J.; Edvardsen, Klaus; Pinney, Kevin G.;  
Prezioso, Joseph Anthony; Wood, Mark

PATENT ASSIGNEE(S): Oxigene, Inc., USA

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

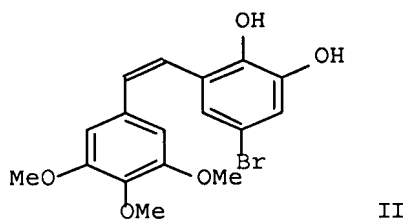
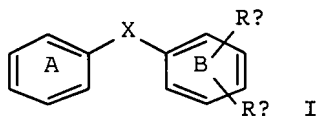
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078126	A2	20040916	WO 2004-US6175	20040301
WO 2004078126	A3	20050811		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004218412	A1	20040916	AU 2004-218412	20040301
CA 2516078	A1	20040916	CA 2004-2516078	20040301
US 2004242696	A1	20041202	US 2004-790662	20040301
EP 1601348	A2	20051207	EP 2004-716108	20040301
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
PRIORITY APPLN. INFO.:			US 2003-450565P	P 20030228
			US 2003-467486P	P 20030502
			WO 2004-US6175	A 20040301

OTHER SOURCE(S): CASREACT 141:277352; MARPAT 141:277352

ED Entered STN: 16 Sep 2004

GI



AB The title compound I [Ring A is optionally substituted with one to five substituents selected from alkoxy, cycloalkoxy, halo, trihaloalkyl, alkyl, allyl, alc., (substituted)amino, oxo, alkanoyl, thiol, etc.; ring B comprises at least one structure denoted by Ra and Rb which represent an ortho-quinone (-CO-CO-), or ortho-catechol (-COH-COH-) or ortho-catechol pro-drug moiety; the remaining carbons of B ring are optionally substituted with one to five substituents selected from alkoxy, cycloalkoxy, halo, trihaloalkyl, alkyl, allyl, alc., (substituted)amino, oxo, alkanoyl, thiol, etc.; Bridge X = alkene, alkane, alkyne, amide, amine, etc.] were prepared for the treatment of solid tumor cancers and other vascular proliferative disorders. For example, compound II was prepared in a multi-step synthesis starting from 5-bromo-2-hydroxy-3-methoxybenzaldehyde. The latter showed activity with IC50s of 2.1 and 0.34  $\mu$ M in the tubulin binding and MTT assays.

IT 757996-22-8P

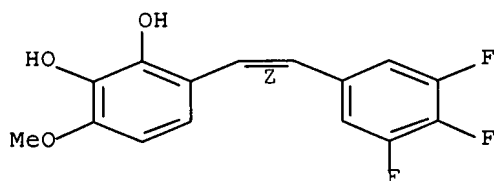
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinone and catechol derivs. for the treatment of cancers and other vascular proliferative disorders)

RN 757996-22-8 HCAPLUS

CN 1,2-Benzenediol, 3-methoxy-6-[(1Z)-2-(3,4,5-trifluorophenyl)ethenyl]- (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 2004:308020 USPATFULL [Full-text](#)

Serial No.10/790,662

TITLE: Compositions and methods with enhanced therapeutic activity

INVENTOR(S): Chaplin, David J., Watlington, UNITED KINGDOM  
Edvardsen, Klaus, Lund, SWEDEN  
Pinney, Kevin G., Woodway, TX, UNITED STATES  
Prezioso, Joseph Anthony, Boston, MA, UNITED STATES  
Wood, Mark, Milton, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004242696	A1	20041202
APPLICATION INFO.:	US 2004-790662	A1	20040301 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-467486P	20030502 (60)
	US 2003-450565P	20030228 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C., ONE FINANCIAL CENTER, BOSTON, MA, 02111	
NUMBER OF CLAIMS:	57	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	3030	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

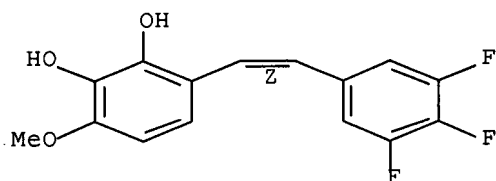
AB Novel quinone and catechol compositions, compositions containing prodrugs of quinone and catechol compositions, and methods of use for the treatment of solid tumor cancers and other vascular proliferative disorders. The disclosure particularly relates to the discovery of dual activity agents capable of generating both a vascular targeting effect and direct tumor cell cytotoxicity in order to achieve an enhanced anti-tumor response in a patient.

IT 757996-22-8P  
(preparation of quinone and catechol derivs. for the treatment of cancers and other vascular proliferative disorders)

RN 757996-22-8 USPATFULL

CN 1,2-Benzenediol, 3-methoxy-6-[(1Z)-2-(3,4,5-trifluorophenyl)ethenyl]- (CA INDEX NAME)

Double bond geometry as shown.



## Search History

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L1          1 SEA ABB=ON  PLU=ON  US2004-790662/APPS

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L2          87 SEA ABB=ON  PLU=ON  (100-39-0/BI OR 101-02-0/BI OR 103214-99-9/
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          933-99-3/BI OR 943126-88-3/BI OR 98-80-6/BI)
L3          0 SEA ABB=ON  PLU=ON  L2 AND STILBENE/CNS
L4          16 SEA ABB=ON  PLU=ON  L2 AND (DIHYDROXY?/CNS)
L5          0 SEA ABB=ON  PLU=ON  L4 AND TRIFLUORO?/CNS
L6          1 SEA ABB=ON  PLU=ON  L2 AND TRIFLUORO?/CNS
          D SCAN
L7          1 SEA ABB=ON  PLU=ON  L2 AND F>=3
          E 1,2-BENZENEDIOL, 3-METHOXY-6-((1Z)-2-(3,4,5-TRIFLUOROPHENYL)E
L8          1 SEA ABB=ON  PLU=ON  "1,2-BENZENEDIOL, 3-METHOXY-6-((1Z)-2-(3,4,
          5-TRIFLUOROPHENYL)ETHENYL) -"/CN
          D SCAN

FILE 'HCAPLUS' ENTERED AT 11:59:45 ON 19 OCT 2007
L9          1 SEA ABB=ON  PLU=ON  L8

FILE 'TOXCENTER, USPATFULL' ENTERED AT 12:01:20 ON 19 OCT 2007
L10         2 SEA ABB=ON  PLU=ON  L8

FILE 'TOXCENTER, USPATFULL, HCAPLUS' ENTERED AT 14:05:43 ON 19 OCT 2007
L11         2 DUP REM L10 L9 (1 DUPLICATE REMOVED)
L12         2 DUP REM L9 L10 (1 DUPLICATE REMOVED)

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